

**AFSC SCIENTIFIC AND TECHNICAL LIAISON OFFICE**

RESEARCH AND TECHNOLOGY DIVISION  
AIR FORCE SYSTEMS COMMAND  
UNITED STATES AIR FORCE  
LANGLEY RESEARCH CENTER (NASA)  
LANGLEY AIR FORCE BASE, VIRGINIA

764-2944

REPLY TO  
ATTN OF:

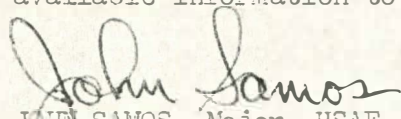
TELEPHONE: ~~XXXXXXX~~  
~~XXXXXXX~~

SUBJECT: Transmittal of NASA Research and Technology  
Resume Forms

19 November 1965

TO: AMD (AMRI, Betty J. Evans)  
Brooks AFB, Texas 78235

Attached are recent NASA Research and Technology Resume Forms that contain task descriptions of current Langley Research Center efforts which may be of interest to you. If you require further information on these tasks, please contact this office. If similar or related efforts are being conducted at your facility, please forward any available information to this office.



JOHN SAMOS, Major, USAF  
Chief, AFSC S/T Liaison Office  
Langley Research Center (NASA)

<b>RESEARCH AND TECHNOLOGY RESUME</b>				1. <b>GOVT. ACCESSION</b>		2. <b>AGENCY ACCESSION</b>			
4. <b>DATE OF RESUME</b> 22-09-65		5. <b>KIND OF RESUME</b> D. CHANGE 08-06-65		6. <b>SECURITY</b> U RPT U WRK		7. <b>REGRADING</b> N/A		8. <b>RELEASE LIMITATION</b> GA - NF	
9. <b>LEVEL OF RESUME</b> A Work Unit		10a. <b>CURRENT NUMBER/CODE</b> 127-49-02-05-23		10b. <b>PRIOR NUMBER/CODE</b> N/A					
11. <b>TITLE:</b> (U) Crew Research and Performance Analysis									
12. <b>SCIENTIFIC OR TECH. AREA</b> 001240 Personnel selection and maintenance (medical); 002400 Bio-engineering; 005900 Environmental biology				13. <b>START DATE</b> 09-65		14. <b>CRIT. COMPL. DATE</b> N/A		15. <b>FUNDING AGENCY</b> N/A	
16. <b>PROCURE. METHOD</b> B. Contract		17. <b>CONTRACT/GRANT</b> b. <b>NUMBER</b> Pending c. <b>TYPE</b> d. <b>AMOUNT</b>		18. <b>RESOURCES EST.</b> PRIOR FY— '65 CURRENT FY— '66		a. <b>PROFESSIONAL MAN-YEARS</b> — 1.5		b. <b>FUNDS (In thousands)</b>	
19. <b>GOVT. LAB/INSTALLATION/ACTIVITY</b> NAME: Langley Res. Center ADDRESS: Langley Station, Hampton, Va. 23365 RESP. INDIV.: SCOW, Dr. Jim - SMD TEL: 703-722-7961, Ext. 2278				20. <b>PERFORMING ORGANIZATION</b> NAME: Not selected ADDRESS: INVESTIGATORS PRINCIPAL: ASSOCIATE: TEL: TYPE:					
21. <b>TECHNOLOGY UTILIZATION</b>				22. <b>COORDINATION</b>					
23. <b>KEYWORDS</b> (U) Performance testing, human research, biomedical instrumentation									
24. (U) In monitoring human subjects in stressful situations, equipment is required to insure their safety and to obtain research data. This includes both physiological and psychological functions and environmental factors.									
25. (U) During human performance research, medical monitoring of various physiological functions such as heart respiration, body temperatures, central nervous system, and blood oxygenation is required in addition to monitoring the environment such as pressure, temperature, and gaseous concentrations. Other equipment is needed for monitoring human performance. This equipment will be designed and fabricated when it is not available through other sources of purchase or manufacture.									
26. (U)									
27.		28. <b>REQUESTING AGENCY</b>		29. <b>INTER-CENTER SUPPORT</b>		30. <b>CROSS CODE</b>			
31. <b>SPECIAL EQUIPMENT</b>						32. <b>FUNDS (\$ K)</b>		IN-HOUSE CONTRACT	
						PRIOR FY— '65		— — —	
33. <b>UNIQUE PROJECT</b> Human Factors Systems, SRT						CURRENT FY— '66		50 — —	
34. <b>SUB PROGRAM</b> Human Research and Performance						NEXT FY— '67		50 — —	
35. <b>TASK AREA</b> Environmental Physiology									

127-53-07-04-23

RESEARCH AND TECHNOLOGY RESUME		1.	2. GOVT. ACCESSION	3. AGENCY ACCESSION	
4. DATE OF RESUME 05-09-65	5. KIND OF RESUME A. New	6. SECURITY U RPT U WRK	7. REGRADING N/A	8. RELEASE LIMITATION GA - NF	9. LEVEL OF RESUME A Work Unit
10a. CURRENT NUMBER/CODE 127-53-07-04-23			10b. PRIOR NUMBER/CODE N/A		
11. TITLE: (U) Mass Measurement System for "0"-gravity Spaceflight					
12. SCIENTIFIC OR TECH. AREA 004000 Components; 002400 Bioengineering; 012900 Physiology			13. START DATE 09-65	14. CRIT. COMPL. DATE N/A	15. FUNDING AGENCY N/A
16. PROCURE. METHOD B. Contract	17. CONTRACT/GRANT a. DATE b. NUMBER Pending c. TYPE d. AMOUNT		18. RESOURCES EST. PRIOR FY- '65 CURRENT FY- '66	a. PROFESSIONAL MAN-YEARS -- 0.5	b. FUNDS (In thousands) -- 0.5
19. GOVT. LAB/INSTALLATION/ACTIVITY NAME: Langley Res. Center ADDRESS: Langley Station, Hampton, Va. 23365 RESP. INDIV.: OSBORNE, Robert S. - AMPD TEL: 703-722-7961, Ext. 2264			20. PERFORMING ORGANIZATION NAME: ADDRESS: Not Selected INVESTIGATORS PRINCIPAL: ASSOCIATE: TEL: TYPE:		
21. TECHNOLOGY UTILIZATION			22. COORDINATION		
23. KEYWORDS (U) Prototypes, mass measurement system, zero-gravity spaceflight, manned spacecraft					
24. (U) To design, construct, and test laboratory models and flight test prototypes of a mass measurement system for use in zero-gravity spaceflight. An optimum system for measuring the mass of astronauts, animals, life support expendables, and experiment packages will be developed and constructed. Applications to biomedical research will be investigated, and adaptability to MORL and AES missions and associated spacecraft will be examined.					
25. (U) Manned spacecraft in a zero-gravity environment will require a system to measure mass, since astronaut and life support component weight changes must be monitored periodically as part of planned experimental programs. Many other experiments will also require mass measurement capabilities (such as animal weight experiments).					
26. (U)					
27.	28. REQUESTING AGENCY		29. INTER-CENTER SUPPORT		30. CROSS CODE
31. SPECIAL EQUIPMENT Power supplies - \$500. Data recorder - \$500.			32. FUNDS (\$ K) PRIOR FY- '65 CURRENT FY- '66 NEXT FY- '67		
33. UNIQUE PROJECT	Human Factors Systems, SRT		IN-HOUSE	CONTRACT	
34. SUB PROGRAM	Life Support and Protective Systems		---	---	
35. TASK AREA	Personal Equipment		2	88	
			42	65	